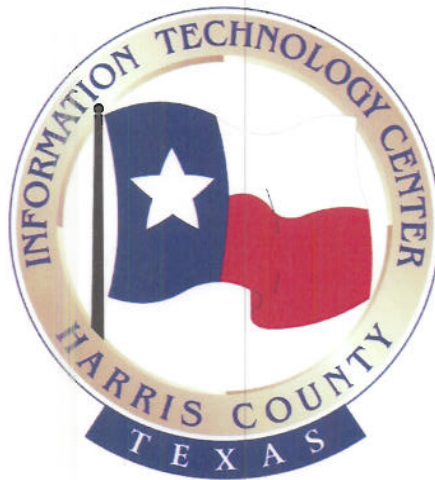


# **HARRIS COUNTY**

INFORMATION TECHNOLOGY CENTER

## **REGIONAL RADIO CENTER**

Bruce High, Chief Information Officer



APPLICATION FOR REGION 51

**800 MHZ RADIO SPECTRUM**

***Presented by Regional Radio Center***

Craig Bernard, Managing Director, Regional Radio Center

Mr. Douglas Frankhouser, Chairman  
NPSPAC Region 51  
Houston Airport System  
Public Safety & Technology  
16930 JFK Blvd.  
Houston, Texas 77032  
July 1, 2013

Dear Chairman Frankhouser:

Harris County requests to relocate and reuse existing licensed frequencies to provide needed additional capacity for the Regional Radio System, consisting of 12 counties, which will serve to expand loading on the Montgomery County system and to reduce the per channel loading for the users of the system. Currently the system has loading of 80000 units.

Chambers County, Fort Bend County, Brazoria County, City of Pasadena, Waller County, Liberty County, Walker County, City of Houston Aviation, Missouri City, Galveston County, League City, Matagorda County and Montgomery County, Texas Department of Public Safety through the execution of interlocal agreements, have become participating members in the Regional Radio System.

The appropriate APCO and FCC forms have been completed and are attached.

Implementation will be complete within twelve (12) months after the FCC has authorized the request of frequencies.

Sincerely,

Bruce High, Chief Information Officer  
Harris County Information Technology Center

To Whom It May Concern:

Radio Communications

Adjacent Channel Interference

In all Harris County radio planning, careful attention is given to minimize radio interference on all radio channels. Most interference can be minimized through proper planning and engineering. However, in some cases, even where proper engineering has been employed, interference can be caused by equipment failure and/ or poor servicing techniques.

Concerning any or all Harris County radio sites and/or channels, Harris County Regional Radio Center is dedicated to the highest standards and performance that can be obtained in the industry. In the event of adjacent channel interference, or any type of interference which is caused radio equipment owned and maintained by Harris County, Harris County will correct the problem with its equipment or cease operation on that radio channel until the problem is resolved. If the interference cannot be remedied through normal techniques, and there is no equipment problem, Harris County will remove, re-license, and relocate the interfering radio channel to a new licensed physical location to resolve the problem and to adhere and conform to all standards approved in the NPSPAC Region 51 Plan.

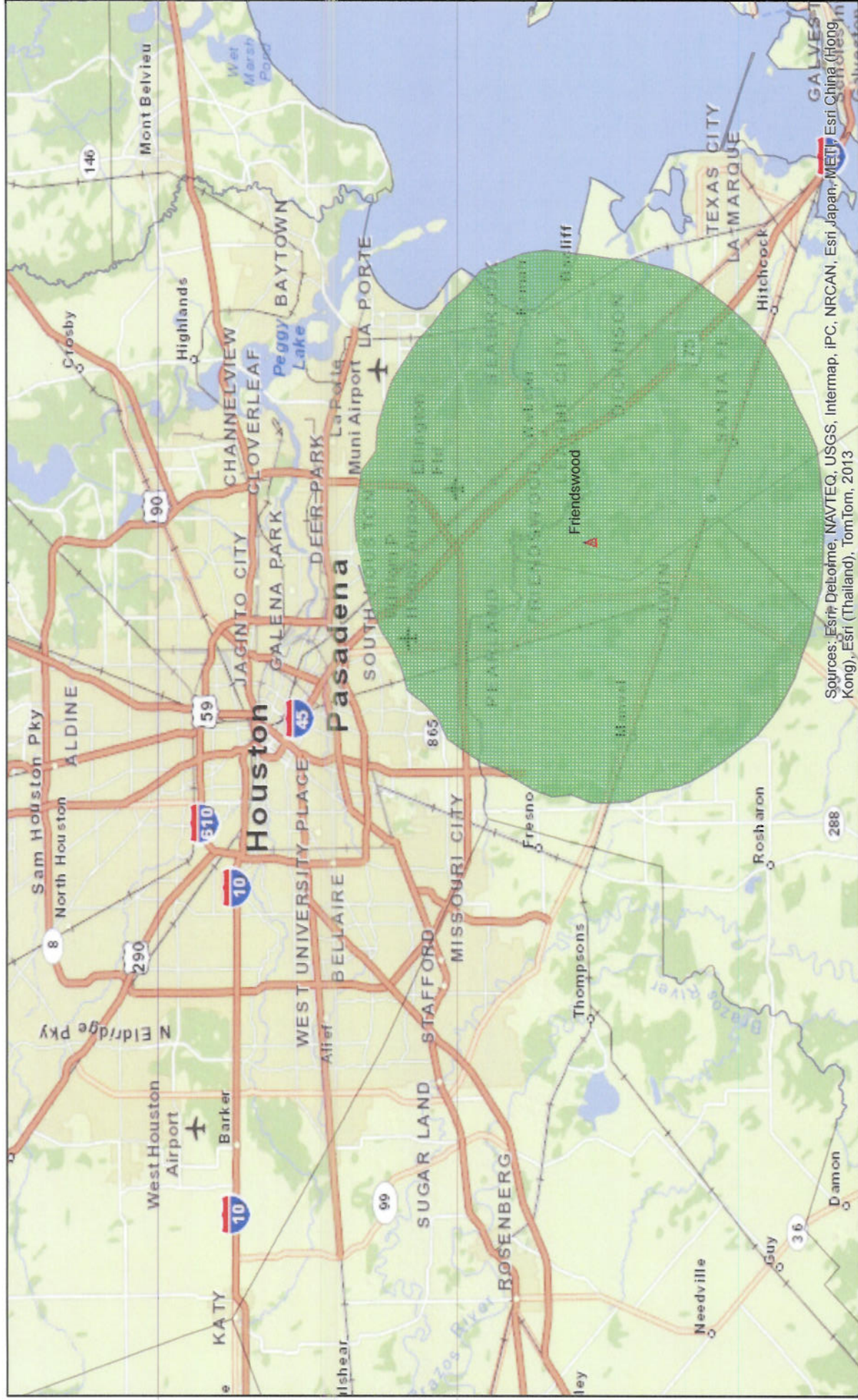
Craig Bernard  
Senior Managing Director  
Regional Radio Center  
Harris County Information Technology Center





**MOTOROLA SOLUTIONS**

## FCC 40dBu Contour Map



0 1.75 3.5 7 Miles



1 inch = 7.36 miles

**Hobby Airport @ 75 ft**

# **REGION 51 APPLICATION FOR RADIO SPECTRUM**

FROM  
HARRIS COUNTY

Note: The following document is required for each applicant.

## **SYSTEM DESIGN**

Harris County requests to relocate and reuse existing licensed frequencies to provide needed additional capacity for the Regional Radio System, consisting of 12 counties, which will serve to reduce the per channel loading for the users of the system. Currently the system has loading of 80000 units.

## **FUNDING STATEMENT**

The equipment and / or upgrades for existing equipment have been purchased.  
Existing system

## **IMPLEMENTATION SCHEDULE**

The County intends to have the additional sites and repeaters fully implemented on the System within twelve (12) months after receiving the frequencies.

## **EXISTING FREQUENCY STATEMENT**

Harris County currently operates in cooperation with Chambers County, Ft Bend County, Brazoria County, City of Pasadena, League City, Walker County, Missouri City, Matagorda County, and Montgomery County System owners through interlocal agreements a 263 channel 800 MHz trunked radio system reusing frequencies and Dynamic Frequency Blocking (DFB) where tower separation allows. We have a fully implemented digital P25 system.



## APPLICANT GENERAL INFORMATION - SECTION A

1. Name of Applicant: Harris County
2. Name of Preparer : Patrick Burleson
3. Title: Systems Maintenance Manager
4. Mailing Address: 406 Caroline 4<sup>th</sup> Floor  
Houston, Texas 77002-2027
5. Telephone Number: 713-274-8810
6. Residential Population : 3.5 Million (2000 Census)
7. Business/Tourist Population:
8. Square Mile Area: 12,500 (HGAC figures)
9. Unique Geographic Considerations:

The Regional Radio System ground elevation at its southern end is at or near sea level while areas in the northern end of the region are heavily wooded.

10. Unique Demographic Considerations:

- 1 Southern Region is home to a number of petrochemical industrial facilities.
- 2 Home of The Port of Houston is a 25-mile-long complex of diversified public and private facilities located just a few hours' sailing time from the Gulf of Mexico The port is ranked first in the United States in foreign waterborne Commerce, second in total tonnage, and sixth in the world.
- 3 Home of George Bush Intercontinental Airport the 8th busiest airport in the U.S. for total passengers, and 7th largest international passenger gateway in the Nation
- 4 Houston is the fourth largest city in the U.S.

11. List all Departments/Divisions within above Applicant which have separate Communications Systems      None

DEPARTMENT / DIVISION FREQUENCY USE  
SECTION B

**Note: One Section B is required For Existing Channel**

1. Name of Applicant                      Harris County
2. Name of Department/Division: Radio Services Division
3. Number of Personnel in this Department/Division which regularly use radios (excluding dispatchers)                      18,200
4. Carrier Frequency: 851 MHz Trunking, 851 MHz Trunking (see attached copy of FCC license application)  
Is this part of a Trunked System?      YES  
  
Is this Part of a Mutual Aid System? YES
5. FCC assigned call sign(s): WNBZ674, WPGD390, WPKL474, WPPF214, WPVC326, WPVK276, WPXP610, WQBM285, WQDW910, WQET713, WQGG825, WQJH486, WQJH488, WQJH490, WQJK321, KNNH590, WNAS493, WPMG297WPGT611, and WPVC326.
6. FCC Part 90 Service Category: (Local Government Radio Service, Police Radio Service, Highway Maintenance Radio Service, Forestry-Conservation Radio Service, Special Emergency Radio Service, other)      Police Radio Service
7. Station Classification From License: (Voice, Data/Telemetry, Base Station [FB], Mobile Relay [FB2], Control Station [FX1], other)      FB2, FX1, MO
8. Number of Mobiles in service and in operation at this time on this frequency (not including "Convertacom" units 50,000
9. Number of Portables (handhelds) in service and in operation at this time on this frequency not including spare units: 11,660  
How many of these are used with a convertacom?      0  
How many of these same units are listed on other frequencies?  
List quantity of frequencies: 10
10. How many individual radio transmissions occur during an average 24-hour period? (Indicate estimated or measured)      624,930 measured

11. How many of these transmissions occur per hour during peak periods? (Indicate estimated or measured) 25,866 measured

12. If this is a voice channel, what is the typical airtime per individual transmission? (Less than five seconds, more than five seconds but less than ten seconds, more than ten seconds) Four (4) seconds average (measured)



## **ADDITIONAL INFORMATION**

### **SECTION C**

**Note: One SECTION C is required for each department/division**

1. Name of Applicant: Harris County
2. Name of Department/Division: Radio Services Division
3. How many channels are being requested for this division:  
  
Reuse of 10 existing licensed.
4. State the intended use for the frequencies and the proposed system structure and spectrum considerations (interoperability): to move the ten frequencies from Pearland to the city of Houston Reed road tower site.  
  
Intended use is for public safety trunked system in the 806 MHz band.
5. What frequency band is desired for the new frequency? 806 MHz
6. Explain requirements for the selected band and reason why other spectrum will not suffice: To move off of the Pearland tower and to move to the Reed road tower.

48.76

M

**Friendswood Tower****Friendswood. Tower**

ANTENNA HEIGHT ABOVE AVERAGE TERRAIN: 55.47 METERS

SYSTEM EFFECTIVE RADIATED POWER: 500 WATTS

ANTENNA CENTERLINE: 52.42 METERS AGL

ANTENNA MFG: TXRX

ANTENNA MODEL: Sinclair

ANTENNA GAIN: 10 dB

ORIENTATION: OMNI T.N  
(OMNI IF NONDIRECTIONAL)

TRANSMISSION LINE TYPE: 11/4" LDF

TRANSMISSION LINE LENGTH: 60.96 METERS

TRANSMISSION LINE LOSS/100FT .93 dB

TOTAL TRANSMISSION LINE LOSS: 1.86 dB

SRF4006B S1

CAVITIES MODEL:                     

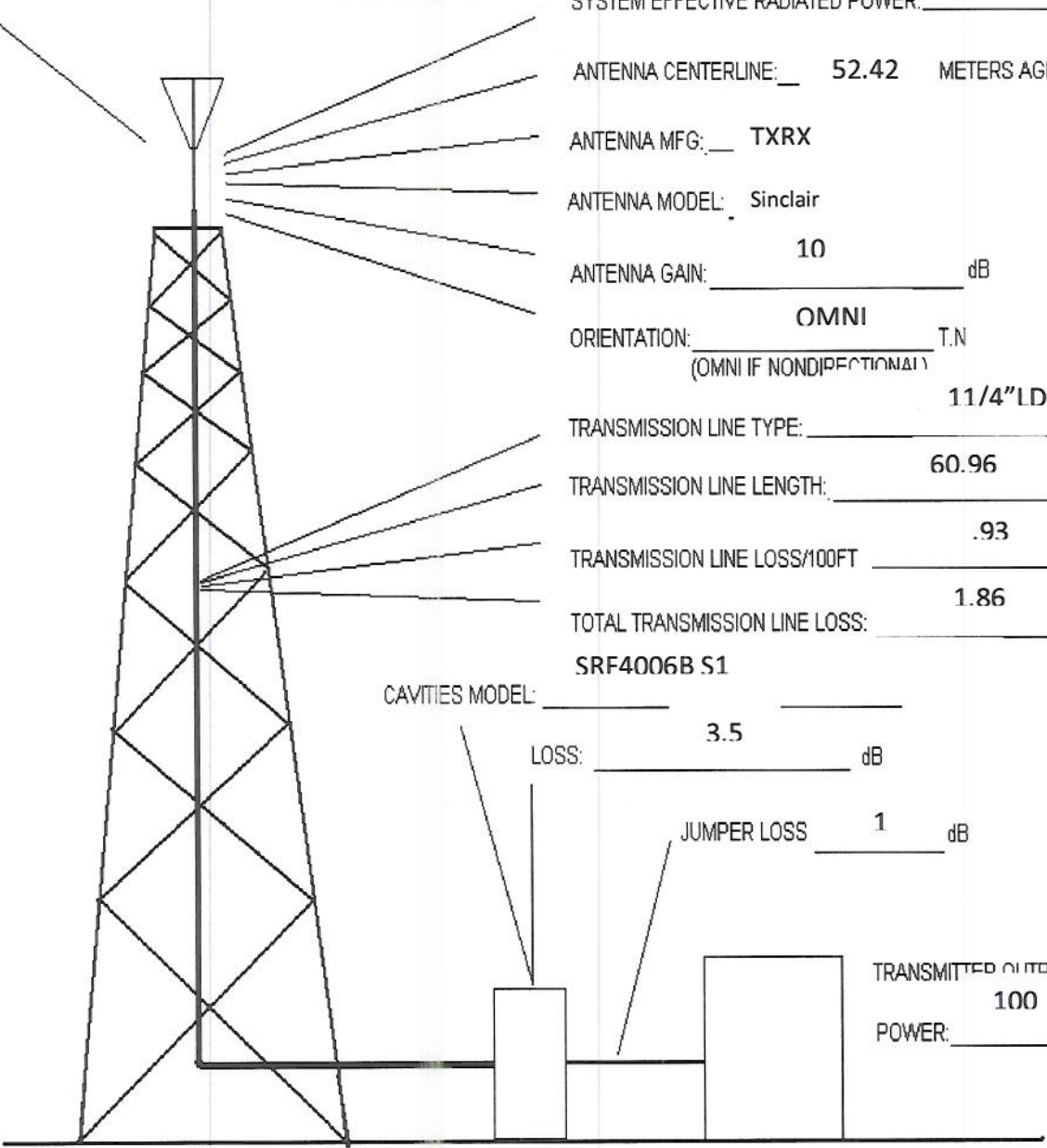
LOSS: 3.5 dB

JUMPER LOSS 1 dB

TRANSMITTED OUTPUT POWER: 100 WATTS

AVERAGE ELEVATION 4.0 METERS

GROUND ELEVATION 4.0 METERS



FCC 601  
Main FormFCC Application for Wireless Telecommunications Bureau  
Radio Service AuthorizationApproved by OMB  
3060-0798  
See instructions for  
Public burden  
estimate

1) Radio Service Code: <b>YE</b>	1a) Existing Radio Service Code:
----------------------------------	----------------------------------

**Application Purpose: NE New****Application Purpose:**

2) ( <b>New</b> )	
NE - New MD - Modification AM - Amendment	RO - Renewal Only RM - Renewal/Modification CA - Cancellation of License
AU - Administrative Update WD - Withdrawal of Application DU - Duplicate License	NT - Required Notifications EX - Request for Extension of Time RL - Registered Location/Link
3a) If this application is for a <u>Developmental License</u> , <u>Demonstration License</u> , or a <u>Special Temporary Authorization (STA)</u> , enter the code and attach the required exhibit as described in the instructions. Otherwise enter <b>N</b> (Not Applicable)	( <b>N</b> ) <b>D M S N/A</b>
3b) If this application is for Special Temporary Authority due to an emergency situation enter 'Y'; otherwise enter 'N.' Refer to Rule 1.915 for an explanation of situations considered to be an emergency.	( <b>N</b> ) <b>Yes No</b>
4) If this application is an Amendment or Withdrawal, enter the file number of the pending application currently on file with the FCC.	File Number
5) If this request is for a Modification, Renewal Only, Renewal/Modification, Cancellation of License, Duplicate License, or Administrative Update, enter the call sign of the existing FCC license. If this is a application for Registered Location/Link, enter the FCC call sign assigned to the geographic license.	Call Sign
6) If this application is for a New, Amendment, Renewal Only or Renewal/Modification, enter the requested authorization expiration date (this item is optional).	
7) Is this application "major" as defined in para 1.929 of the Commission's Rules when read in conjunction with the applicable radio service rules found in Parts 22 and 90 of the Commission's rules? (NOTE: This question only applies to certain site-specific applications. See the instructions for applicability and full text of para 1.929).	N/A
8) Are attachments (other than associated schedules) being filed with this application?	( <b>Y</b> ) <b>Yes No</b>

**Fees, Waivers, and Exemptions**

9) Is the applicant exempt from FCC application fees?	( <b>Y</b> ) <b>Yes No</b>
10) Is the applicant exempt from FCC regulatory fees?	( <b>Y</b> ) <b>Yes No</b>
11a) Does this application include a request for a Waiver of the Commission's rules? If 'Yes', attach an exhibit providing rule numbers and explaining circumstances.	( <b>N</b> ) <b>Yes No</b>
11b) If 11a is 'Y', enter the number of rule section(s) being waived.	
12) Are the frequencies or parameters requested in this filing covered by grandfathered privileges, previously approved by waiver, or functionally integrated with an existing station?	( <b>Y</b> ) <b>Yes No</b>

FCC 601 - Main Form  
February 2008 Page 1



**Applicant Information**

13) FCC Registration Number (FRN): <b>0003556537</b>			
14) Applicant/Licensee Legal Entity Type (Select One) <input type="checkbox"/> Individual <input type="checkbox"/> Unincorporated Association <input type="checkbox"/> Trust <input checked="" type="checkbox"/> Government Entity <input type="checkbox"/> Corporation <input type="checkbox"/> Limited Liability Company <input type="checkbox"/> General Partnership <input type="checkbox"/> Limited Partnership <input type="checkbox"/> Limited Liability Partnership <input type="checkbox"/> Consortium <input type="checkbox"/> Other:			
15) If the licensee name is being updated, is the update a result from the sale (or transfer of control) of the license(s) to another party and for which proper Commission approval has not been received or proper notification not provided? <b>N</b>			
16) First Name (if individual):	MI:	Last Name:	Suffix:
17) Legal Entity Name (if other than individual): <b>HARRIS COUNTY I.T.C.</b>			
18) Attention To: <b>BRUCE HIGH</b>			
19) P.O. Box:	And/Or	20) Street Address: <b>406 CAROLINE 4TH FLOOR</b>	
21) City: <b>HOUSTON</b>	22) State: <b>TX</b>	23) ZIP Code: <b>77002</b>	
24) Telephone Number: <b>(713) 755-6777</b>	25) FAX:		
26) E-Mail Address: <b>BRUCE.HIGH@ITC.HCTX.NET</b>			
<b>Race:</b> <input type="checkbox"/> American Indian or Alaska Native <input type="checkbox"/> Asian <input type="checkbox"/> Black or African-American <input type="checkbox"/> Native Hawaiian or Other Pacific Islander <input type="checkbox"/> White		<b>Ethnicity:</b> <input type="checkbox"/> Hispanic or Latino <input type="checkbox"/> Not Hispanic or Latino	
		<b>Gender:</b> <input type="checkbox"/> Male <input type="checkbox"/> Female	

**Real Party in Interest**

28) Name of Real Party in Interest of Applicant (if different from applicant):	29) FCC Registration Number (FRN) of Real Party in Interest:
--	--

**Contact Information (if different from applicant)**

30) First Name:	MI:	Last Name:	Suffix:
31) Company Name: <b>HARRIS COUNTY I.T.C.</b>			
32) Attention To: <b>PATRICK BURLESON</b>			
33) P.O. Box:	And /Or	34) Street Address: <b>406 CAROLINE 4TH FLOOR</b>	
35) City: <b>HOUSTON</b>	36) State: <b>TX</b>	37) ZIP Code: <b>77002</b>	
38) Telephone Number: <b>(713) 274-8810</b>	39) FAX: <b>(713) 274-8838</b>		
40) E-Mail Address:			

**Regulatory Status**

41) This filing is for authorization to provide or use the following type(s) of radio service offering (enter all that apply):  
☐ Common Carrier ☐ Non-Common Carrier ☒ Private, internal communications ☐ Broadcast Services ☐ Band Manager

**Type of Radio Service**

42) This filing is for authorization to provide the following type(s) of radio service (choose all that apply):

☒ Fixed ☒ Mobile ☐ Radiolocation ☐ Satellite (sound) ☐ Broadcast Services

43) Does the Applicant propose to provide service interconnected to the public telephone network? (N) Yes No

**Alien Ownership Questions**

44) Is the applicant a foreign government or the representative of any foreign government? (N) Yes No

45) Is the applicant an alien or the representative of an alien? (N) Yes No

46) Is the applicant a corporation organized under the laws of any foreign government? (N) Yes No

47) Is the applicant a corporation of which more than one-fifth of the capital stock is owned of record or voted by aliens or their representatives or by a foreign government or representative thereof or by any corporation organized under the laws of a foreign country? (N) Yes No

48a) Is the applicant directly or indirectly controlled by any other corporation of which more than one-fourth of the capital stock is owned of record or voted by aliens, their representatives, or by a foreign government or representative thereof, or by any corporation organized under the laws of a foreign country? (N) Yes No

48b) If the answer to 48a is 'Y', has the applicant received a ruling(s) under Section 310(b)(4) of the Communications Act with respect to the same radio service involved in this application?

If the answer to 48b is 'Y', attach an exhibit that identifies the citation(s) of the applicable declaratory ruling(s) by DA/FCC number of the FCC Record citation, if available, release date, and any other identifying information

(N) Yes No

If the answer to 48b is 'N', attach to this filing a date-stamped copy of a request for a foreign ownership ruling pursuant to Section 310(b)(4) of the Communications Act. It is not necessary to file a request for a foreign ownership ruling if the Applicant includes in the exhibit required by Item 48a showing that the requested license(s) is exempt from the provisions of Section 310(b)(4).

**Basic Qualification Questions**

49) Has the applicant or any party to this application had any FCC station authorization, license, or construction permit revoked or had any application for an initial, modification or renewal of FCC station authorization, license, construction permit denied by the Commission? (N) Yes No

50) Has the applicant or any party to this application or amendment, or any party directly or indirectly controlling the applicant, ever been convicted of a felony by any state or federal court? (N) Yes No

51) Has any court finally adjudged the applicant or any party directly or indirectly controlling the applicant guilty of unlawfully monopolizing or attempting unlawfully to monopolize radio communication, directly or indirectly, through control of manufacture or sale of radio apparatus, exclusive traffic arrangement, or any other means or unfair methods of competition? (N) Yes No

If the answer to any of 49-51 is 'Y', attach an exhibit explaining the circumstances.

**Aeronautical Advisory Station (Unicom) Certification**

52) I certify that the station will be located on property of the airport to be served, and, in cases where the airport does not have a control tower, RCO, or FAA flight service station, that I have notified the owner of the airport and all aviation service organizations located at the airport within ten days prior to application. N/A

**Broadband Radio Service and Educational Broadband Service Cable Cross-Ownership**

53a) Will the requested facilities be used to provide multichannel video programming service? N/A

53b) If the answer to question 53a is yes, does applicant operate, control or have an attributable interest (as defined in Section 27.1202 of the Commission's Rules) in a cable television system whose franchise area is located with the geographic service area of the requested facilities? N/A

**Note:** If the answer to question 53b is 'Y', attach an exhibit explaining how the applicant complies with Section 27.1202 of the Commission's Rules or justifying a waiver of that rule. If a waiver of the Commission Rule(s) is being requested, item 11a must be answered 'Y'.



**Broadband Radio Service and Educational Broadband Service (Part 27)**

54) (For EBS only) Does the applicant comply with the programming requirements contained in Section 27.1203 of the Commission's Rules?	N/A
<b>Note: If the answer to question 54 is 'N', attach an exhibit explaining how the applicant complies with Section 27.1203 of the Commission's Rules or justifying a waiver of that rule. If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.</b>	
55) (For BRS and EBS) Does the applicant comply with Sections 27.50, 27.55, and 27.1221 of the Commission's Rules?	N/A
<b>Note: If the answer to question 55 is 'N', attach an exhibit justifying a waiver of that rule(s). If a waiver of the Commission Rule(s) is being requested, Item 11a must be answered 'Y'.</b>	

FCC 601 - Main Form  
February 2008 Page 3**General Certification Statements**

1) The applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and requests an authorization in accordance with this application.
2) The applicant certifies that grant of this application would not cause the applicant to be in violation of any pertinent cross-ownership, attribution, or spectrum cap rule.* *If the applicant has sought a waiver of any such rule in connection with this application, it may make this certification subject to the outcome of the waiver request.
3) The applicant certifies that all statements made in this application and in the exhibits, attachments, or documents incorporated by reference are material, are part of this application, and are true, complete, correct, and made in good faith.
4) The applicant certifies that neither the applicant nor any other party to the application is subject to a denial of Federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. p862, because of a conviction for possession or distribution of a controlled substance. This certification does not apply to applications filed in services exempted under Section 1.2002(c) of the rules, 47 CFR p1.2002(c). See Section 1.2002(b) of the rules, 47 CFR p1.2002(b). for the definition of "party to the application" as used in this certification.
5) The applicant certifies that it either (1) has a current required ownership data on file with the Commission, (2) is filing updated ownership data simultaneously with this application or (3) is not required to file ownership data under the Commission's Rules.
6) The applicant certifies that the facilities, operations, and transmitters for which this authorization is hereby requested are either (1) categorically excluded from routine environmental evaluation for RF exposure as set forth in 47 C.F.R. 1.1307(b), or, (2) have been found not to cause human exposure to levels of radio frequency radiation in excess of the limits specified in 47 C.F.R. 1.1310 and 2.1093, or, (3) are the subject of one or more Environmental Assessments filed with the Commission.
7) The applicant certifies that it has reviewed the appropriate Commission Rules defining eligibility to hold the requested license(s), and is eligible to hold the requested license(s).
8) The applicant certifies that it is not in default on any payment for Commission licenses and that it is not delinquent on any non-tax debt owed to any federal agency.

**Signature**

56) Typed or Printed Name of Party Authorized to Sign

First Name: BRUCE	MI:	Last Name: HIGH	Suffix:
57) Title: CIO EXECUTIVE DIRECTOR OF I.T.C.			
Signature:			58) Date:

FAILURE TO SIGN THIS APPLICATION MAY RESULT IN DISMISSAL OF THE APPLICATION AND FORFEITURE OF ANY FEES PAID.

Upon grant of this license application, the licensee may be subject to certain construction or coverage requirements. Failure to meet the construction or coverage requirements will result in termination of the license. Consult appropriate FCC regulations to determine the construction or coverage requirements that apply to the type of license requested in this application.

WILLFUL FALSE STATEMENTS MADE ON THIS FORM OR ANY ATTACHMENTS ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. Code, Title 18, Section 1001) AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. Code, Title 47, Section 312(a)(1)), AND/OR FORFEITURE (U.S. Code, Title 47, Section 503).



FCC 601  
Schedule DWireless Telecommunications Bureau Schedule for Approved by OMB  
Station Locations and Antenna Structures3060-0798  
See 601 Maint Form  
for public burden estimate

1) Action Requested: (A) <u>Add</u> <u>Mod</u> <u>Del</u>		2) Location Number: <u>1</u>	
3) Location Description: <u>Fixed</u>		4) Area of Operation Code: <u>Continental US</u>	
5) Location Name:			
6) FCC Antenna Structure Registration # or N/A (FAA Notification not Required) <u>1259789</u>			
7) Latitude (DD-MM-SS.S): <u>29-29-47.8</u>		8) Longitude (DDD-MM-SS.S): <u>95-12-5.8</u>	
NAD83 (N) <u>N</u> or <u>S</u>		NAD83 (W) <u>E</u> or <u>W</u>	
9) Street Address, Name of Landing Area, or Other Location Description: <u>1600 Harold L. Whitaker Drive (#268232)</u>			
10) City: <u>Friendswood</u>		11) State: <u>TX</u>	
12) County/Borough/Parish: <u>Galveston</u>			
13) Elevation of Site AMSL (meters) ( 'a' in antenna structure example): <u>9.5</u>		14) Overall Ht AGL Without Appurtenances (meters) ( 'b' in antenna structure example): <u>51.3</u>	
15) Overall Ht AGL With Appurtenances (meters) ( 'c' in antenna structure example): <u>54.6</u>			
16) Support Structure Type: <u>TOWER - A Free Standing Guyed Structure Used for Communications Puposes</u>			
17) Location Number: (Only for Area of Operation Code 'A')		18) Radius (km):	
		19) Airport Identifier:	
		20) Site Status:	
21) Latitude (DD-MM-SS.S): <u>Use for rectangle only (Northwest corner)</u>		22) Longitude (DDD-MM-SS.S): <u>Use for rectangle only (Northwest corner)</u>	
NAD83 ( ) <u>N</u> or <u>S</u>		NAD83 ( ) <u>E</u> or <u>W</u>	
23) Do you propose to operate in an area that requires frequency coordination with Canada? (N) <u>Yes</u> <u>No</u>			
24) Description: (only for Area of Operation Code 'O'):			
25) Number of Units: <u>      </u> Hand Held <u>      </u> Mobile <u>      </u> Temporary Fixed <u>      </u> Aircraft <u>      </u> Itinerant			
26) Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? See Section 1.1307 of 47 CFR. If 'Yes', submit an environmental assessment as required by 47 CFR, Sections 1.1308 and 1.1311. (N) <u>Yes</u> <u>No</u>			
27a) If the proposed site is located in one of the quiet zones listed in item 27 of the instructions, provide the date (mm/dd/yyyy) that the proper Quiet Zone entity was notified:			
27b) Has the applicant obtained prior written consent from the proper Quiet Zone entity for the same technical parameters that are specified in this application? (N) <u>Yes</u> <u>No</u>			
28) Do you propose to operate in an area that requires frequency coordination with Mexico? (N) <u>Yes</u> <u>No</u>			

**FCC 601  
Schedule D****Wireless Telecommunications Bureau Schedule for Approved by OMB  
Station Locations and Antenna Structures**3060-0798  
See 601 Maint Form  
for public burden estimate

1) Action Requested: (A) <u>Add</u> <u>Mod</u> <u>Del</u>		2) Location Number: <u>2</u>	
3) Location Description: <u>6.1 Meter Control Station</u>		4) Area of Operation Code: <u>Land Mobile Control Station Meeting the 6.1 Meter</u>	
5) Location Name:			
6) FCC Antenna Structure Registration # or N/A (FAA Notification not Required) <u>N/A</u>			
7) Latitude (DD-MM-SS.S): <u>NAD83</u> ( ) <u>N</u> or <u>S</u>		8) Longitude (DDD-MM-SS.S): <u>NAD83</u> ( ) <u>E</u> or <u>W</u>	
9) Street Address, Name of Landing Area, or Other Location Description:			
10) City:		11) State: <u>TX</u>	
12) County/Borough/Parish: <u>Galveston</u>			
13) Elevation of Site AMSL (meters) ( 'a' in antenna structure example):		14) Overall Ht AGL Without Appurtenances (meters) ( 'b' in antenna structure example):	
15) Overall Ht AGL With Appurtenances (meters) ( 'c' in antenna structure example):			
16) Support Structure Type: <u>None - No support structure</u>			
17) Location Number: (Only for Area of Operation Code 'A')		18) Radius (km):	
19) Airport Identifier:		20) Site Status:	
21) Latitude (DD-MM-SS.S): <u>Use for rectangle only (Northwest corner)</u> <u>NAD83</u> ( ) <u>N</u> or <u>S</u>		22) Longitude (DDD-MM-SS.S): <u>Use for rectangle only (Northwest corner)</u> <u>NAD83</u> ( ) <u>E</u> or <u>W</u>	
23) Do you propose to operate in an area that requires frequency coordination with Canada? (N) <u>Yes</u> <u>No</u>			
24) Description: (only for Area of Operation Code 'O'):			
25) Number of Units: <u>      </u> Hand Held <u>      </u> Mobile <u>      </u> Temporary Fixed <u>      </u> Aircraft <u>      </u> Itinerant			
26) Would a Commission grant of Authorization for this location be an action which may have a significant environmental effect? See Section 1.1307 of 47 CFR. If 'Yes', submit an environmental assessment as required by 47 CFR, Sections 1.1308 and 1.1311. (N) <u>Yes</u> <u>No</u>			
27a) If the proposed site is located in one of the quiet zones listed in item 27 of the instructions, provide the date (mm/dd/yyyy) that the proper Quiet Zone entity was notified:			
27b) Has the applicant obtained prior written consent from the proper Quiet Zone entity for the same technical parameters that are specified in this application? (N) <u>Yes</u> <u>No</u>			
28) Do you propose to operate in an area that requires frequency coordination with Mexico? (N) <u>Yes</u> <u>No</u>			



27b) Has the applicant obtained prior written consent from the proper Quiet Zone entity for the same technical parameters that are specified in this application?	(N) <u>Yes</u> No
28) Do you propose to operate in an area that requires frequency coordination with Mexico?	(N) <u>Yes</u> No

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FCC 601  
Schedule H

**Wireless Telecommunications Bureau Schedule for  
Station Locations and Antenna Structures**

Approved by OMB  
3060-0798  
See 601 Main Form  
for public burden  
estimate

**Eligibility**

1) Rule Section: <b>90.523</b>	2) Describe Activity: <b>GOVERNMENT ENTITY PROVIDING EMERGENCY COMMUNICATION FOR PUBLIC SAFETY.</b>
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**Frequency Coordination Information (if not self-coordinated)**

3) Frequency Coordination Number:	4) Name of Frequency Coordinator:	5) Telephone Number:	6) Coordination Date:
<b>CAP002740</b>	<b>(No Coordinator Assigned)</b>		
7) Has this application been successfully coordinated? (N) <u>Yes</u> / No			

**Extended Implementation (Slow Growth)**

8) Are you requesting a new or modified extended implementation plan? If "yes", attach an exhibit with a justification and a proposed station construction schedule.	(N) <u>Yes</u> / No
---	---------------------

**Associated Call Signs (Attach additional sheets if required)**

9) <b>WPVK276</b>				

**Broadcast Auxiliary Only**

If there is an associated Parent Station, complete Items 10-12.	10) Facility Id of Parent Station:	11) Radio Service of Parent Station:	12) City and State of Parent Station Principal Community:
13) If there is no associated parent station, this applicant is a: ( ) <b>Broadcast Network Entity Television Cable operator Motion Picture Producer Television Producer</b>			14) State of Primary Operation:

**Control Point(s) (Other than at the transmitter) (Attach additional sheets if required)**

15) Action A/M/D	16) Control Point Number	17) Location Street Address, City or Town, County/Borough/Parish, State	18) Telephone Number



1. A	1	406 CAROLINE 4TH FLOOR , Houston, Harris, TX	(713) 755-6777
2.			
3.			
4.			
5.			

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### Antenna Information

19) Action (A/M/D)	20) Location Number	21) Antenna Number	22) AAT (meters)	23) Antenna Ht (meters)	24) Azimuth (degrees)	25) Beamwidth (degrees)	26) Polarization	27) Gain (dB)
1. A	1	1	52.4	55.4			V	12.0
2. A	2	1					V	
3. A	3	1					V	
4.								
5.								
6.								
7.								
8.								
9.								
10.								
11.								
12.								
13.								
14.								
15.								
16.								
17.								
18.								
19.								
20.								
21.								
22.								

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**Frequency Information**

28) Action (A/M/D)	29) Location Number	30) Antenna Number	31) Frequency (MHz)  New	32) Station Class	33) No. of Units	34) No. of Paging Receivers	35) Output Power (watts)	36) ERP (watts)	37) Emission Designators
1. A	1	1	851.150000	FB2	1		100.000	500.000	16K0F1D
2.									16K0F1E
3.									16K0F3E
4.									20K0F9W
5.									8K10F1D
6.									8K10F1E
7.									8K10F7W
8.									8K70D7W
9. A	1	1	851.175000	FB2	1		100.000	500.000	16K0F1D
10.									16K0F1E
11.									16K0F3E
12. A	1	1	851.300000	FB2	1		100.000	500.000	16K0F1D
13.									16K0F1E
14.									16K0F3E
15. A	1	1	851.400000	FB2	1		100.000	500.000	16K0F1D
16.									16K0F1E
17.									16K0F3E
18. A	1	1	851.650000	FB2	1		100.000	500.000	16K0F1D
19.									16K0F1E
20.									16K0F3E
21. A	1	1	851.700000	FB2	1		100.000	500.000	16K0F1D
22.									16K0F1E

**Frequency Information**

28) Action (A/M/D)	29) Location Number	30) Antenna Number	31) Frequency (MHz)  New	32) Station Class	33) No. of Units	34) No. of Paging Receivers	35) Output Power (watts)	36) ERP (watts)	37) Emission Designators
23.									16K0F3E
24. A	1	1	852.050000	FB2	1		100.000	500.000	16K0F1D
25.									16K0F1E
26.									16K0F3E
27. A	1	1	852.150000	FB2	1		100.000	500.000	16K0F1D
28.									16K0F1E
29.									16K0F3E
30. A	1	1	852.200000	FB2	1		100.000	500.000	16K0F1D
31.									16K0F1E
32.									16K0F3E
33. A	1	1	852.400000	FB2	1		100.000	500.000	16K0F1D
34.									16K0F1E
35.									16K0F3E
36. A	1	1	853.675000	FB2	1		100.000	500.000	16K0F1D
37.									16K0F1E
38.									16K0F3E
39. A	2	1	806.150000	FX1	1000		15.000	15.000	16K0F1E
40.									20K0F9W
41.									6K0F1D
42.									8K10F1D
43.									8K10F1E
44.									8K10F7W



66.									8K10F1D
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### Frequency Information

28) Action (A/M/D)	29) Location Number	30) Antenna Number	31) Frequency (MHz)  New	32) Station Class	33) No. of Units	34) No. of Paging Receivers	35) Output Power (watts)	36) ERP (watts)	37) Emission Designators
67.									8K10F1E
68.									8K10F7W
69.									8K70D1W
70.									8K70D7W
71.	A	2	1	806.650000	FX1	1000	15.000	15.000	16K0F1E
72.									20K0F9W
73.									6K0F1D
74.									8K10F1D
75.									8K10F1E
76.									8K10F7W
77.									8K70D1W
78.									8K70D7W
79.	A	2	1	806.700000	FX1	1000	15.000	15.000	16K0F1E
80.									20K0F9W
81.									6K0F1D
82.									8K10F1D
83.									8K10F1E
84.									8K10F7W
85.									8K70D1W
86.									8K70D7W

87.	A	2	1	807.050000	FX1	1000	15.000	15.000	16K0F1E
88.									20K0F9W

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### Frequency Information

28) Action (A/M/D)	29) Location Number	30) Antenna Number	31) Frequency (MHz)  New	32) Station Class	33) No. of Units	34) No. of Paging Receivers	35) Output Power (watts)	36) ERP (watts)	37) Emission Designators
89.									6K0F1D
90.									8K10F1D
91.									8K10F1E
92.									8K10F7W
93.									8K70D1W
94.									8K70D7W
95.	A	2	1	807.150000	FX1	1000	15.000	15.000	16K0F1E
96.									20K0F9W
97.									6K0F1D
98.									8K10F1D
99.									8K10F1E
100.									8K10F7W
101.									8K70D1W
102.									8K70D7W
103.	A	2	1	807.200000	FX1	1000	15.000	15.000	16K0F1E
104.									20K0F9W
105.									6K0F1D
106.									8K10F1D
107.									8K10F1E

108.									8K10F7W
109.									8K70D1W
110.									8K70D7W

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### Frequency Information

28) Action (A/M/D)	29) Location Number	30) Antenna Number	31) Frequency (MHz)  New	32) Station Class	33) No. of Units	34) No. of Paging Receivers	35) Output Power (watts)	36) ERP (watts)	37) Emission Designators
111. A	2	1	807.400000	FX1	1000		15.000	15.000	16K0F1E
112.									20K0F9W
113.									6K0F1D
114.									8K10F1D
115.									8K10F1E
116.									8K10F7W
117.									8K70D1W
118.									8K70D7W
119. A	2	1	808.675000	FX1	1000		15.000	15.000	16K0F1E
120.									20K0F9W
121.									6K0F1D
122.									8K10F1D
123.									8K10F1E
124.									8K10F7W
125.									8K70D1W
126.									8K70D7W
127. A	3	1	806.150000	MO	50000		35.000	35.000	16K0F1D
128.									16K0F1E



129.									20K0F9W
130.									8K10F1D
131.									8K10F1E
132.									8K10F7W

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### Frequency Information

28) Action (A/M/D)	29) Location Number	30) Antenna Number	31) Frequency (MHz)  New	32) Station Class	33) No. of Units	34) No. of Paging Receivers	35) Output Power (watts)	36) ERP (watts)	37) Emission Designators
133.									8K70D1W
134.									8K70D7W
135. A	3	1	806.175000	MO	50000		35.000	35.000	16K0F1D
136.									16K0F1E
137.									20K0F9W
138.									8K10F1D
139.									8K10F1E
140.									8K10F7W
141.									8K70D1W
142.									8K70D7W
143. A	3	1	806.300000	MO	50000		35.000	35.000	16K0F1D
144.									16K0F1E
145.									20K0F9W
146.									8K10F1D
147.									8K10F1E
148.									8K10F7W
149.									8K70D1W

150.									8K70D7W
151.	A	3	1	806.400000	MO	50000	35.000	35.000	16K0F1D
152.									16K0F1E
153.									20K0F9W
154.									8K10F1D

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### Frequency Information

28) Action (A/M/D)	29) Location Number	30) Antenna Number	31) Frequency (MHz)  New	32) Station Class	33) No. of Units	34) No. of Paging Receivers	35) Output Power (watts)	36) ERP (watts)	37) Emission Designators
155.									8K10F1E
156.									8K10F7W
157.									8K70D1W
158.									8K70D7W
159.	A	3	1	806.650000	MO	50000	35.000	35.000	16K0F1D
160.									16K0F1E
161.									20K0F9W
162.									8K10F1D
163.									8K10F1E
164.									8K10F7W
165.									8K70D1W
166.									8K70D7W
167.	A	3	1	806.700000	MO	50000	35.000	35.000	16K0F1D
168.									16K0F1E
169.									20K0F9W
170.									8K10F1D

171.									8K10F1E
172.									8K10F7W
173.									8K70D1W
174.									8K70D7W
175.	A	3	1	807.050000	MO	50000	35.000	35.000	16K0F1D
176.									16K0F1E

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### Frequency Information

28) Action (A/M/D)	29) Location Number	30) Antenna Number	31) Frequency (MHz)  New	32) Station Class	33) No. of Units	34) No. of Paging Receivers	35) Output Power (watts)	36) ERP (watts)	37) Emission Designators
177.									20K0F9W
178.									8K10F1D
179.									8K10F1E
180.									8K10F7W
181.									8K70D1W
182.									8K70D7W
183.	A	3	1	807.150000	MO	50000	35.000	35.000	16K0F1D
184.									16K0F1E
185.									20K0F9W
186.									8K10F1D
187.									8K10F1E
188.									8K10F7W
189.									8K70D1W
190.									8K70D7W
191.	A	3	1	807.200000	MO	50000	35.000	35.000	16K0F1D



192.									16K0F1E
193.									20K0F9W
194.									8K10F1D
195.									8K10F1E
196.									8K10F7W
197.									8K70D1W
198.									8K70D7W

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### Frequency Information

28) Action (A/M/D)	29) Location Number	30) Antenna Number	31) Frequency (MHz)  New	32) Station Class	33) No. of Units	34) No. of Paging Receivers	35) Output Power (watts)	36) ERP (watts)	37) Emission Designators
199. A	3	1	807.400000	MO	50000		35.000	35.000	16K0F1D
200.									16K0F1E
201.									20K0F9W
202.									8K10F1D
203.									8K10F1E
204.									8K10F7W
205.									8K70D1W
206.									8K70D7W
207. A	3	1	808.675000	MO	50000		35.000	35.000	16K0F1D
208.									16K0F1E
209.									20K0F9W
210.									8K10F1D
211.									8K10F1E
212.									8K10F7W

213.									8K70D1W
214.									8K70D7W
215.									
216.									
217.									
218.									
219.									
220.									

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SHORT FORM  
PUBLIC SAFETY PLANNING COMMITTEE FREQUENCY ASSIGNMENT REQUEST  
For the 806 / 851-854 MHz Band  
For inclusion as part of the  
REGION 51 Public Safety Communications initial Frequency Assignment

Name of applicant: County of Harris, Texas  
Mailing Address 406 Caroline St. 4<sup>th</sup> Floor  
City, State, Zip: Houston, Texas 77002

Authorized Signature \_\_\_\_\_

Bruce High, Chief Information Officer  
Information Technology Center

Is this a request for a new station?

YES

If for a new station, will it be trunked or conventional?

TRUNKED

Is this request for expansion of an existing system?

NO

If for expansion of an existing 800 MHz station, how many RF channels are there in the existing system?

10 frequencies from the Pearland tower site to Friendswood Tower



How many channels are you requesting from the new 806-851 MHz band?

Reuse of 10 existing licensed frequencies.

Please list your existing frequencies and explain their use.

851.1500

851.7500

851.3000

851.4000

851.7000

852.0500

852.1500

852.2000

852.4000

853.6750

SEE ATTACHED COPY OF LICENSES FOR FREQUENCIES

Will the use of the requested frequencies replace use of existing frequencies currently licensed?

Yes

Moving from the Pearland tower to city of Friendswood road tower

If use of the requested frequencies will replace the use of existing frequencies currently licensed, you may be required to "give back" some current frequencies. Please list the frequencies you would consider as "give backs" after your new channels are in operation.

Please give a month and year estimate for when you would expect the channels to become operational. Within 1 year of license being granted.

Please describe any actions that your entity has taken to fund the purchase of equipment for the requested channels. If no action has occurred, please indicate that no action has been accomplished and indicate how you expect your entity to fund the purchase of new equipment and what date you expect it to occur. Reusing the old analog equipment from Pearland.